Senniger, Powers, Leavitt & Roedel
Attorneys at Law

Patents, Trademarks, Copyrights,
Technology Law, Antitrust, Litigation

Thomas F. Maloney

One Metropolitan Square, 16th Floor
Saint Louis, Missouri 63102

Telephone: 314-231-5400
Facsimile: 314-231-4342

www.senniger.com

July 8, 2003

UTILITY PATENT APPLICATION TRANSMITTAL
(new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket Number: UMO 1512.2
First Named Inventor: Henry W. White
Title: PROCESS FOR PREPARING P-N JUNCTIONS HAVING A P-TYPE ZnO
       FILM

Express Mail Label Number: EV 271811356 US

TO: Mail Stop Patent Application
     Commissioner for Patents
     P.O. Box 1450
     Alexandria, Virginia 22313-1450

APPLICATION ELEMENTS

1.   [X]   Fee Transmittal Form
           (original and duplicate)

2.   [X]   Applicant claims small entity status

3.   [X]   Application [Total Pages _43_]

4.   [X]   Drawings [Total Sheets _9_]

5.   Oath or Declaration [Total Pages _5_]

     a.   [ ]   Newly executed (original or copy)
          [ ]   New (unexecuted)

     b.   [X]   Copy from a prior application
                (for continuation/divisional with
                Box 19 completed)
          i.   [ ]   DELETION OF INVENTOR(s)
                Signed statement attached
                deleting inventor(s) named
                in prior application.

6. [X] Incorporation By Reference
         (useable if Box 5b is marked)
    The entire disclosure of the prior application, from which a
    copy of the oath or declaration is supplied under Box 5b, is
    considered as being part of the disclosure of the
    accompanying application and is hereby incorporated by
    reference therein.

7. [X] Application Data Sheet

8. [ ] CD-ROM or CD-R in duplicate, large table or Computer
         Program (Appendix)

9. [ ] Nucleotide and/or Amino Acid Sequence Submission
         (if applicable, all necessary)

         a. [ ] Computer Readable Form
         b. [ ] Specification Sequence Listing on:
                  i. [ ] CD-ROM or CD-R (2 copies); or
                  ii. [ ] paper
         c. [ ] Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

10. [X] Assignment Papers (cover sheet & document(s)) (as filed
          in parent case)

11. [ ] 37 CFR 3.73(b) Statement   [ ] Power of Attorney

12. [ ] English Translation Document (if applicable)

13. [X] IDS with PTO-SB/08A   [ ] Copies of IDS Citations

14. [X] Preliminary Amendment

15. [X] Return Receipt Postcard

16. [ ] Request and Certification for Non-Publication. Form
          PTO/SB/35 is attached.

17. [ ] Certified Copy of Priority Document(s) if foreign
          priority is claimed

18. [ ] Other: _____

IF A CONTINUING APPLICATION, CHECK APPROPRIATE BOXES AND SUPPLY THE REQUISITE INFORMATION

19. [X] Continuation [ ] Divisional   [ ] Continuation-in-Part
          of prior application No.: 10/002,790 filed on November
          15, 2001, which is a divisional application of
          09/439,529 filed November 12, 1999, which is a
          continuation-in-part application of application serial
          number 09/364,809 filed on July 30, 1999 which is a
          continuation-in-part application of application serial
          number 09/128,516 filed on August 3, 1998.

     [ ] Complete Application based on provisional Application
          No. _____

Prior application information: Examiner: Felisa Carla Hiteshew
                                Group Art Unit: 1765

2

CORRESPONDENCE ADDRESS

20.   Correspondence Address: Customer Number 321
      Attention: Thomas F. Maloney

                         Respectfully submitted,

                         Thomas F. Maloney, Reg. No. 50,156

TFM/kll

FEE TRANSMITTAL

Application Number: Not Yet Assigned
Filed: Herewith
Inventor(s): Henry W. White et al.
Group Art Unit: 1765
Examiner Name: Not Yet Assigned
Attorney Docket Number UMO 1512.2

METHOD OF PAYMENT

1.   [ ]   The Commissioner is hereby authorized to charge the indicated fees to Deposit Account No. 19-1345.

       [X]   The Commissioner is hereby authorized to charge any additional fees required under 37 CFR 1.16 and 1.17 to Deposit Account No. 19-1345.

       [X]   Applicant claims small entity status.

2.   [X]   Check Enclosed. The Commissioner is hereby authorized to charge any under payment or credit any over payment to Deposit Account No. 19-1345.

FEE CALCULATION

1.   [X]   BASIC FILING FEE   Subtotal (1) $__375.00__
             (Type: Utility)

2.   [ ]   EXTRA CLAIM FEES   Subtotal (2) $_____

          Total Claims __14__
          Independent Claims __2__
          Multiple Dependent Claims _____

3.   [ ]   ADDITIONAL FEES   Subtotal (3) $_____

         [ ]   Surcharge - late filing fee or oath
         [ ]   Surcharge - late provisional filing fee or cover sheet
         [ ]   Extension for reply within _____ month
         [ ]   Notice of Appeal
         [ ]   Filing a Brief in Support of an appeal
         [ ]   Request for ex parte Reexamination
         [ ]   Petitions to the Commissioner
         [ ]   Submission of Information Disclosure Statement
         [ ]   Recording each patent assignment per property
         [ ]   Request for Continued Examination
         [ ]   Other: _____

TOTAL AMOUNT OF PAYMENT $__375.00__

Thomas F. Maloney   July 8, 2003
Thomas F. Maloney, Reg. No. 50,156   Date

TFM/kll

Express Mail Label No. EV 271811356 US

FEE TRANSMITTAL

Application Number: Not Yet Assigned
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Inventor(s): Henry W. White et al.
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FEE CALCULATION

1. [X] BASIC FILING FEE   Subtotal (1) $ 375.00
        (Type: Utility)

2. [ ] EXTRA CLAIM FEES   Subtotal (2) $_____

        Total Claims 14
        Independent Claims   2
        Multiple Dependent Claims _____

3. [ ] ADDITIONAL FEES   Subtotal (3) $_____

        [ ] Surcharge - late filing fee or oath
        [ ] Surcharge - late provisional filing fee or cover
            sheet
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        [ ] Notice of Appeal
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        [ ] Request for ex parte Reexamination
        [ ] Petitions to the Commissioner
        [ ] Submission of Information Disclosure Statement
        [ ] Recording each patent assignment per property
        [ ] Request for Continued Examination
        [ ] Other: _____

TOTAL AMOUNT OF PAYMENT $ 375.00

Thomas F. Maloney   July 8, 2003
Thomas F. Maloney, Reg. No. 50,156   Date

TFM/kll

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